

--16. (new) A method for the inhibition of transmission of a hepatitis B virus to a cell, comprising contacting the cell with an effective concentration of a hepatitis B virus peptide recognized by an ALLMOT15, 107x178x4 or a PLZIP sequence search motif for an effective period of time so that no infection of the cell by the virus occurs.

17. (new) A method for the inhibition of transmission of a hepatitis B virus to a cell, comprising contacting the cell with an effective concentration of a peptide having a formula selected from the group consisting of:

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X-PLLVLQAGFLLTRILTIPQSLDSWWTSLNFLGGGTTVCLGQNSQSP-Z;
X-PLLVLQAGFLLTRILTIPQSLDSWWTSLNFLGGT-Z;
X-LLVLQAGFLLTRILTIPQSLDSWWTSLNFLGGT-Z;
X-LVLQAGFLLTRILTIPQSLDSWWTSLNFLGGTTV-Z;
X-LQAGFLLTRILTIPQSLDSWWTSLNGLGGTTVCL-Z;
X-QAGFLLTRILTIPQSLDSWWTSLNFLGGTTVCLG-Z;
X-AGFLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQ-Z;
X-GFLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQN-Z;
X-FFLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQNS-Z;
X-FLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQNSQ-Z;
X-LLTRILTIPQSLDSWWTSLNFLGGTTVCLGQNSQS-Z;
X-PGYRWMCLRRFIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLIPGSSTSTG
PCRTCMTT-Z;
X-PGYRWMCLRRFIIFLLFILLLLCLIFLLVLLDYQGML-Z;
X-GYRWMCLRRFIIFLLFILLLLCLIFLLVLLDYQGMLP-Z;
X-YRWMCLRRFIIFLLFILLLLCLIFLLVLLDYQGMLPV-Z;
X-RWMCLRRFIIFLLFILLLLCLIFLLVLLDYQGMLPVC-Z;
X-WMCLRRFIIFLLFILLLLCLIFLLVLLDYQGMLPVCPI-Z;
X-MCLRRFIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLI-Z;
X-CLRRFIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLIP-Z;
X-LRRFIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLIPGS-Z;
X-RFIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLIPGS-Z;
X-FIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLIGSS-Z;
X-IIIFLLFILLLLCLIFLLVLLDYQGMLPVCPLIPGSST-Z;
X-IFLLFILLLLCLIFLLVLLDYQGMLPVCPLIPGSSTS-Z;
X-FLFILLLLCLIFLLVLLDYQGMLPVCPLIPGSSTST-Z;
X-LFILLLLCLIFLLVLLDYQGMLPVCPLIPGSSTSTG-Z;
X-FILLLLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGP-Z;
X-ILLLLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPC-Z;
X-LLLCIFLLVLLDYQGMLPVCPLIPGSSTSTGPCR-Z;
X-LLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRT-Z;
X-LCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTC-Z;
X-CLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTCMT-Z;
X-LIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTCMT-Z; or

(See ID Nos: 239-273, respectively)

X-IFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTCMTT-Z;

in which:

amino acid residues are presented by the single-letter code;

X comprises an amino group, an acetyl group, a 9-fluorenylmethoxy-carbonyl group, a hydrophobic group, or a macromolecule carrier group;

Z comprises a carboxyl group, an amido group, a hydrophobic group, or a macromolecular carrier group for an effective period of time so that no infection of the cell by the virus occurs.

Cont

18. (new) A method for neutralizing hepatitis B virus in a host, comprising administering to the host an effective concentration of a hepatitis B virus peptide recognized by an ALLMOT15, 107x178x4 or a PLZIP sequence search motif so that the host raises an immune response sufficient to neutralize the virus, and viral infection of uninfected cells in the host is inhibited.

19. (new) A method for neutralizing a hepatitis B virus in a host, comprising administering to the host an effective concentration of a peptide:

X-PLLVLQAGFFLLTRILTIPQSLDSWWTSLNFLGGGTTVCLGQNSQSP-Z;
X-PLLVLQAGFFLLTRILTIPQSLDSWWTSLNFLGGT-Z;
X-LLVLQAGFFLLTRILTIPQSLDSWWTSLNFLGGTT-Z;
X-LVLQAGFFLLTRILTIPQSLDSWWTSLNFLGGTTV-Z;
X-LQAGFFLLTRILTIPQSLDSWWTSLNFLGGTTVCL-Z;
X-QAGFFLLTRILTIPQSLDSWWTSLNFLGGTTVCLG-Z;
X-AGFFLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQ-Z;
X-GFFLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQN-Z;
X-FLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQNS-Z;
X-FLLTRILTIPQSLDSWWTSLNFLGGTTVCLGQNSQ-Z;

X-LLTRILTIFQSLDSWWTSLNFLGGTTVCLGQNSQS-Z;
 X-PGYRWMCLRRFIIIFLFIILLCLIFLLVLLDYQGMLPVCPLIPGSSTSTG
 PCRTCMTT-Z;
 X-PGYRWMCLRRFIIIFLFIILLCLIFLLVLLDYQGML-Z;
 X-GYRWMCLRRFIIIFLFIILLCLIFLLVLLDYQGMLP-Z;
 X-YRWMCLRRFIIIFLFIILLCLIFLLVLLDYQGMLP-Z;
 X-RWMCLRRFIIIFLFIILLCLIFLLVLLDYQGMLPVC-Z;
 X-WMCLRRFIIIFLFIILLCLIFLLVLLDYQGMLPVCPI-Z;
 X-MCLRRFIIIFLFIILLCLIFLLVLLDYQGMLPVCPI-Z;
 X-CLRRFIIIFLFIILLCLIFLLVLLDYQGMLPVCPLI-Z;
 X-LRRFIIIFLFIILLCLIFLLVLLDYQGMLPVCPLIP-Z;
 X-RRFIIIFLFIILLCLIFLLVLLDYQGMLPVCPLIPG-Z;
 X-RFIIIFLFIILLCLIFLLVLLDYQGMLPVCPLIPGS-Z;
 X-FIIFLFIILLCLIFLLVLLDYQGMLPVCPLIGGSS-Z;
 X-IIIFLFIILLCLIFLLVLLDYQGMLPVCPLIPGSST-Z;
 X-IFLFIILLCLIFLLVLLDYQGMLPVCPLIPGSSTS-Z;
 X-FLFIILLCLIFLLVLLDYQGMLPVCPLIPGSSTST-Z;
 X-LFIILLCLIFLLVLLDYQGMLPVCPLIPGSSTSTG-Z;
 X-FIILLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGP-Z;
 X-ILLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPC-Z;
 X-LLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCR-Z;
 X-LLCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRT-Z;
 X-LCLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTC-Z;
 X-CLIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTCMT-Z;
 X-LIFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTCMT-Z;
 X-IFLLVLLDYQGMLPVCPLIPGSSTSTGPCRTCMTT-Z;

in which:

amino acid residues are presented by the single-letter code;

X comprises an amino group, an acetyl group, a 9-fluorenylmethoxy-carbonyl group, a hydrophobic group, or a macromolecule carrier group;

Z comprises a carboxyl group, an amido group, a hydrophobic group, or a macromolecular carrier group so that the host raises an immune response sufficient to neutralize the virus, and viral infection of uninfected cells in the host is inhibited.--

REMARKS

Applicants respectfully request that the amendments and remarks be made of record in the file of the instant